

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): ~~Sandwich~~ A sandwich panel core, wherein  
being the core is a 3-D structure formed from polymeric paper,  
with a binder layer is applied onto its both sides a top and a bottom of the core, is  
~~characterized by that it includes the perforated~~  
the paper [[base]] includes perforation holes, and  
the binder layers bond to each other at a location of the perforation holes. whereof the  
~~binder layers thickness is decreased whereas the decrease value, the quantity of the perforated~~  
~~holes and their diameter satisfy the condition~~

$$\frac{n_h \cdot \frac{\pi \cdot d_h^2}{4}}{\delta_p \left(1 - \frac{\rho_p}{\rho_b}\right)} > \frac{2 \cdot \Delta_b \cdot F}{\delta_p \left(1 - \frac{\rho_p}{\rho_b}\right)}, \text{ where}$$

~~$n_h$  is the quantity of holes,~~

~~$d_h$  is the diameter of holes,~~

~~$\Delta_b$  is the binder layer thickness decrease,~~

~~$F$  is the core surface area,~~

~~$\Delta_p$  is the base layer thickness,~~

~~$\rho_p$  is the paper base material density,~~

~~$\rho_b$  is the binder density.~~

Claim 2 (New): The sandwich panel core according to Claim 1, wherein the binder layers are made of phenol-formaldehyde resin.

Claim 3 (New): The sandwich panel core according to Claim 1, wherein the top binder layer has an inner surface bonded to the paper, and an outer unbonded surface.

Claim 4 (New): The sandwich panel core according to Claim 1, wherein the bottom binder layer has an inner surface bonded to the paper, and an outer unbonded surface.

Claim 5 (New): The sandwich panel core according to Claim 1, formed by a process comprising:

applying binder layers to the top and bottom of the paper in a liquid state;  
bonding the binder layers to each other at locations of the perforation holes; and  
thermally hardening the binder layers.